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PATENT ABSTRACTS OF JAPAN

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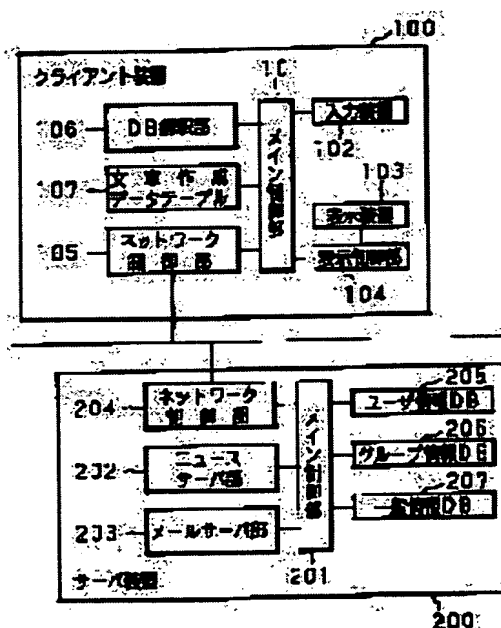
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(54) ELECTRONIC COMMUNICATION SYSTEM AND STORAGE MEDIUM

(57)Abstract:

PROBLEM TO BE SOLVED: To provide an electronic communication system which makes a user have a sense of affinity to the electronic communication system and inspires the user's interest and desire for participation in communication about the electronic communication system which exchanges an electronic message such as electronic news and an electronic mail in a network like an Internet.

SOLUTION: This system is provided with a user information DB205 and a group information DB206 which store attribute information that is related to a user, a sentence production data table 107 which stores a configuration pattern of a sentence and sentence production data which embeds the attribute information into the configuration pattern, a DB interpreting part 106 which acquires the attribute information from the information DB205 and DB206, acquires the configuration pattern of the sentence and sentence production data from the table 107 and produces a sentence by incorporating the attribute information in the sentence pattern and a display device 103 that outputs the sentence which is produced by the part 106.



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CLAIMS

[Claim(s)]

[Claim 1] The electronic communication system characterized by providing the following. The 1st storage means which has memorized the attribute information relevant to the object which performs electronic communication. The 2nd storage means which has memorized the text creation data for embedding the aforementioned attribute information to the composition pattern and this composition pattern of a text. The message creation section which acquires the 2nd composition pattern and text creation data of a storage means to a text for attribute information from the 1st storage means again, includes the aforementioned attribute information in a text pattern, and creates a message. The output unit which outputs the message which the message creation section created.

[Claim 2] It is the electronic communication system according to claim 1 equipped with a means the aforementioned message creation section acquires the text creation data corresponding to the composition pattern of the aforementioned text out of the information which the 3rd storage means has memorized, builds these text creation data into the composition pattern of the aforementioned text, and create a message, by having the 3rd storage means which has memorized information required for text composition.

[Claim 3] The electronic communication system characterized by providing the following. The 1st storage means which has memorized the attribute information on the object which performs electronic communication. The 2nd storage means which has memorized the information main part. The 3rd storage means containing the identification information of this information main part which has memorized the attribute information on this information main part. The control section which receives the selection to the identification information outputted to the attribute information for the above with the message creation section which acquires the identification information of an information main part which has relevance from the 3rd storage means, and the output unit which outputs the identification information which the message creation section acquired, and acquires the information main part corresponding to the selected identification information from the 2nd storage means.

[Claim 4] The record medium which is characterized by providing the following and in which reading by the computer is possible. Attribute information relevant to the object which performs electronic communication. Text creation data for embedding the aforementioned attribute information to the composition pattern and this composition pattern of a text. A program code means to acquire the composition pattern and text creation data of attribute information and a text to the aforementioned computer, to make it include the aforementioned attribute information in a text pattern, and to make it create a message. The program code means to which the message created by the aforementioned computer is made to output.

[Claim 5] The system which is characterized by providing the following and which performs communication electronically using a computer system. The 1st storage means which has memorized beforehand two or more specific information which accompanies the individual or group using this system. The 2nd storage means which has memorized beforehand two or more kinds of composition patterns of the message which should be shown to the individual or group using the aforementioned system. The message creation section which includes in the

composition pattern of the message which acquired the specific information from the storage means of the above 1st from the 2nd storage means according to the information which shows the state at the time of electronic communication execution, and creates a predetermined message. The output unit which presents the created message.

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DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[The technical field to which invention belongs] this invention relates to the record medium in which reading by the computer used by the electronic communication system which transmits and receives electronic messages, such as electronic news and an E-mail, in a network like the Internet, and the electronic communication system is possible.

[0002]

[Description of the Prior Art] Electronic news and an E-mail are transmitted and received using networks, such as the Internet and personal computer communications, and the electronic communication system for which many men and an opinion are exchanged has spread.

[0003]

[Problem(s) to be Solved by the Invention] However, although such an electronic communication system is used abundantly at the business youth, the present condition is that the user with thin concordance is negative to the participation to communication to computers, such as a child and an old age person.

[0004] Although news are classified into a certain amount of genre and reference of a user is supported in the electronic communication system, a user has to choose a genre and he has to discover interested information. This troublesomeness is one of the causes which bar the participation to communication of a user with thin concordance to computers, such as a child and an old age person.

[0005] It is made in order that this invention may solve such a trouble. By creating the text incorporating the attribute information of users, such as an event schedule of a name, a hobby, and an affiliation group, and information like WX which carries out aging, for example, outputting as a character Based on information like the hobby included in a user's attribute information, as identification information of news considered for a user's interest to be high, moreover, for example, by offering the news which displayed the reduction image automatically and the user chose from the inside A user is made to have a sense of closeness to an electronic communication system, and it aims at offer of the electronic communication system and record medium with which a user's interest and participating volition to communication are caused.

[0006]

[Means for Solving the Problem] The electronic communication system of the 1st invention The 1st storage means which has memorized the attribute information relevant to the object which performs electronic communication, The 2nd storage means which has memorized the text creation data for embedding the aforementioned attribute information to the composition pattern and this composition pattern of a text, Attribute information from the 1st storage means Moreover, the message creation section which acquires the composition pattern and text creation data of a text from the 2nd storage means, includes the aforementioned attribute information in a text pattern, and creates a message, It is characterized by having the output unit which outputs the message which the message creation section creates.

[0007] It carries out the electronic communication system of the 2nd invention having been equipped with the 3rd storage means which has memorized information required for text

composition in addition to the 1st invention, and having had a means that aforementioned message creation section acquires the text creation data corresponding to the composition pattern of the aforementioned text out of the information which the 3rd storage means has memorized, builds these text creation data into the composition pattern of the aforementioned text, and create a message as the feature.

[0008] The electronic communication system of the 3rd invention The 1st storage means which has memorized the attribute information on the object which performs electronic communication, The 2nd storage means which has memorized the information main part, and the 3rd storage means containing the identification information of this information main part which has memorized the attribute information on this information main part, The message creation section which acquires the identification information of an information main part which has relevance to the attribute information for the above from the 3rd storage means, The output unit which outputs the identification information which the message creation section acquired, and the selection to the outputted identification information are received, and it is characterized by having the control section which acquires the information main part corresponding to the selected identification information from the 2nd storage means.

[0009] In the record medium which the record medium of the 4th invention can read [computer] The attribute information relevant to the object which performs electronic communication, and the text creation data for embedding the aforementioned attribute information to the composition pattern and this composition pattern of a text, A program code means to acquire the composition pattern and text creation data of attribute information and a text to the aforementioned computer, to make it include the aforementioned attribute information in a text pattern, and to make it create a message, It is characterized by including the program code means to which the message created by the aforementioned computer is made to output.

[0010] The electronic communication system of the 5th invention The 1st storage means which has memorized beforehand two or more specific information which accompanies the individual or group which is the system which performs communication electronically using a computer system, and uses this system, The 2nd storage means which has memorized beforehand two or more kinds of composition patterns of the message which should be shown to the individual or group using the aforementioned system, The message creation section which includes in the composition pattern of the message which acquired the specific information from the storage means of the above 1st from the 2nd storage means according to the information which shows the state at the time of electronic communication execution, and creates a predetermined message, It is characterized by having the output unit which presents the created message.

[0011] In the 1st, the 4th, and 5th invention, a text including the individual content which included the attribute information relevant to users, such as an event of a name, a birthday, a hobby, an affiliation group, and an affiliation group, in the composition pattern of a text is created and outputted.

[0012] In the 2nd invention, general information required to constitute texts other than the attribute information relevant to a user is memorized, and the text incorporating the general information corresponding to information included in the attribute information relevant to a user, such as an event of a birthday and an affiliation group, is created and outputted. Thereby, the 1st, the 2nd, the 4th, and 5th invention makes a sense of closeness to an electronic communication system bear against a user, and a user's interest and participating volition to communication are caused.

[0013] In the 3rd invention, it has relevance to the attribute information of a user like a hobby among the news contributed to the system, and the news of the identification information chosen from from as the user while outputting and outputting only identification information, such as a reduction image which discriminates news with a user's high interest, are acquired from a storage means like a news server. Thereby, a user can look through the identification information of the high news of an interest, without performing special operation, the news for which it wishes by easy operation of choosing from them further can be acquired, and the participating volition to communication is caused.

[0014]

[Embodiments of the Invention]

[Form 1 of operation] Drawing 1 is the block diagram of the form 1 of operation of the electronic communication system of this invention. It includes client equipment 100 Main control section 101 which controls operation of each part, and the data transfer between each part input units 102, such as a mouse and a keyboard, Display 103, such as a display as an output unit, and a loudspeaker display 103 The display-control section 104 which controls data output Server equipment 200 mentioned later Required information is acquired from various databases. Give a user unexpected nature and make it bear a sense of closeness against a communication system. The text creation data table 107 (refer to drawing 4) which has memorized the document preparation data for creating the text in which a user's interest and participating volition to communication are caused, Text creation data table 107 DB interpretation section 106 which creates the text which refers to and includes a user's individual contents The network control section 105 which controls the communication procedure between networks It has and connects with server equipment 200 through the network.

[0015] Drawing 2 is above-mentioned DB interpretation section 106. It is a detailed block diagram. each time which creates a text for the item of the attribute information relevant to the user who becomes the keyword which determines the composition pattern of the text to create — turn — or the keyword selection section 1061 which chooses at random and a text creation data table 107 It refers to and it has the text composition section 1062 which includes a user's individual information in the composition pattern of a text suitable for the keyword chosen by the keyword selection section 1061, and constitutes a text.

[0016] Server equipment 200 Main control section 201 which controls operation of each part, and transfer of the data between each part The news server section 202 which memorizes and manages the information main part of news The mail server section 203 which memorizes and manages the information main part of mail The network control section 204 which controls the communication procedure between networks It has.

[0017] moreover, server equipment 200 User information DB(database) 205 which stores the attribute information of users, such as the user ID beforehand registered by the user, a name, an affiliation group, a birthday, a hobby, and sex (age) group information DB206 which stores the attribute information of a user like the event information on a user's affiliation group (kind of event time and event) For example, general information DB207 which stores information like WX of the place of residence of the user who gained from the exterior periodically which carries out aging according to the date It has. Drawing 3 is server equipment 200. The database 205 of the gestalt 1 of operation, 206, and 207 It is a conceptual diagram.

[0018] Drawing 4 is the text creation data table 107 of the gestalt 1 of operation. It is a conceptual diagram. The text composition pattern table is memorized according to the item of the attribute information used as the keyword of the text which creates the composition pattern of the text for creating the text incorporating a user's attribute information. The keyword attribute table has memorized the items (the date, WX, sex, etc.) of attribute information required in order to create the text suitable for the content of a keyword. The text composition rule table has memorized the language and the text according to the attribute information on items, such as the date and sex, the sake [when not including as / of attribute ***** / in a text pattern].

[0019] Next, immediately after a user logs in operation of the gestalt 1 of operation to a communication system from client equipment, based on drawing of the flow chart of drawing 5 and drawing 6, and the example of a screen display of drawing 7, it explains by making into an example the case where a message is displayed. A user is client equipment 100. Input unit 102 When shell user ID, a password, etc. are inputted and being logged in to a communication system (Step S1), it is client equipment 100. Network control section 105 Shell server equipment 200 Network control section 204 User ID is transmitted.

[0020] Server equipment 200 It is the user information DB205, using user ID which received as a key. It searches and a user's attribute information is acquired (Step S2). Next, it is the group information DB206, using as a key the group name to which a user belongs. It searches and

group information, such as a date of the event of the group to which a user belongs, and a kind of event, is acquired (Step S3). Next, it is general information DB207, using information at the predetermined time like the date of an event as a key. It searches and general information, such as WX, is acquired (step S4). Server equipment 200 It is client equipment 100 about these acquired information. It transmits.

[0021] Client equipment 100 DB interpretation section 106 Text creation data table 107 It refers to, these information is analyzed and the text of the message which is display information is processed (Step S5).

[0022] DB interpretation section 106 The item of the attribute information relevant to the keyword which chose either of the items of attribute information at random (Step S51), and chose it from the keyword attribute table according to predetermined sequence as a keyword of the message to create is acquired, and the attribute information on the corresponding item is acquired (Step S52). For example, when "an event 1" is chosen as a keyword, the item of the "date" (attribute 1) and "WX" (attribute 2) is acquired from a keyword attribute table. It is the group information DB206, using these items as a key. The date of an event 1 and a kind, and general information DB207 The weather information of the date of an event is acquired.

[0023] Next, DB interpretation section 106 According to the selected keyword, a text composition pattern is acquired from a text composition pattern table (Step S53), attribute information is incorporated, and a text is created (Step S54). At this time, depending on the item of attribute information, with reference to a text composition rule table, other language corresponding to attribute information and a text are acquired, and it includes in a text composition pattern. For example, in the case of the "date", according to the difference of today's date and the date of an event, the word "day after tomorrow" is replaced with the date itself "today" and "tomorrow", and it includes in a text composition pattern.

[0024] DB interpretation section 106 It is the display-control section 104 about the created text data. Passing, the display-control section 104 is display 103. Message data as shown in the display to carry out at drawing 7 is displayed (Step S6). At the form 1 of operation, it is DB interpretation section 106. Text creation data table 107 Client equipment 100 Although the established example was given, it is server equipment 200. You may prepare.

[0025] [Form 2 of operation] Drawing 8 is the block diagram of the form 2 of operation of the electronic communication system of this invention. In addition, the same sign is given to the form 1 of operation of drawing 1, the same, or a considerable portion, and the explanation is omitted. server equipment 200 of this example The same user information DB205 as the form 1 of operation News server section 202 It is client equipment 100 as identification information which discriminates the memorized news main part. Display 103 The reduction image data of the news to output (or the storing address), news information DB208 which has memorized the subject of news, the number of readers, and the attribute information on the news which consist of famous height according to News ID Mail server section 203 It is client equipment 100 as identification information which discriminates the memorized main part of mail. Display 103 The date of arrival of the mail to output, The sender and mail information DB209 which has memorized the reduction image data (or the storing address) according to Mail ID It has. Drawing 9 is the database 205 of the form 2 of operation, 208, and 209. It is a conceptual diagram.

[0026] moreover, client equipment 100 DB interpretation section 106 User information DB205 the reduction image data of the news and mail according to the attribute information of a user like the hobby memorized — news information DB208 And mail information DB209 from — acquiring — for example, message data — adding — the display-control section 104 passing — display 103 A message is displayed, when there is message data, a reduction image and.

[0027] moreover, client equipment 100 Main control section 101 The display position and size of the displayed reduction image, News ID, and Mail ID are memorized. Display 103 It is server equipment 200 about the news ID corresponding to the reduction image chosen from from as the user by click operation etc. while displaying, or Mail ID. It transmits. It is server equipment 200 about the news or mail corresponding to the selected reduction image. News server section 202 Or the mail server section 203 Shell acquisition is carried out and it is display 103. It displays on display.

[0028] Next, immediately after a user logs in preparation of the gestalt 2 of operation to a communication system from client equipment, based on drawing of the flow chart of drawing 10, and the example of a screen display of drawing 11, it explains by making into an example the case where a reduction image is displayed. A user is client equipment 100. Input unit 102 When the user ID, a password, etc. are input and being logged in to a communication system (Step S11), it is client equipment 100. Network control section 105 Shell server equipment 200 Network control section 204 User ID is transmitted.

[0029] Server equipment 200 It is the user information DB205, using user ID which received as a key. The attribute information which searches, for example, shows the degree of interest to a user's information like a hobby is acquired (Step S12). next, news information DB208 from — the reduction image data of news with a user's high degree of interest, for example, the news about a hobby, — moreover, reduction image datas, such as mail with a user's high degree of interest, for example, the mail from the sender who has a friend relation, and new-arrival mail, are acquired from the mail information DB (Step S12 and S13) Server equipment 200 It is client equipment 100 about these acquired information. It transmits.

[0030] client equipment 100 DB interpretation section 106 display information, such as determining the display position of the transmitted reduction image, and adding message data, — processing it (Step S14) — main control section 101 The display position and size of the reduction image to display, News ID, or Mail ID is memorized (Step S15). display information — the display-control section 104 passing — the display-control section 104 this display information — display 103 it is — as shown in display at drawing 11, it displays (Step S16)

[0031] Furthermore, when a user chooses the reduction image displayed like drawing 11 by click, it is client equipment 100. Main control section 101 It judges which is the selected reduction image, and the corresponding news ID or Mail ID is transmitted to server equipment 200. server equipment 200 Main control section 201 News information DB208 Or mail information DB209 the news or mail corresponding to the reduction image referred to and chosen — the news server section 202 Or the mail server section 203 from — taking out — client equipment 100 It transmits.

[0032] In addition, although the gestalt of the above operation explained the client-server type electronic communication system, this invention is applicable also to a stand-alone type electronic communication system. Moreover, DB interpretation section 106 Server equipment 200 You may prepare.

[0033] Drawing 12 is the ** type view of the hardware composition for realizing the system of this invention. This hardware is equipped with the personal computer 81 as a processor, the display 82 which displays an alphabetic data etc., and the keyboard 83 and mouse 84 as an input unit. Communication of a program is possible for a personal computer 81 with the portability type record media 85, such as a magnetic disk and CD-ROM, a personal computer 81, radio, or a cable, for example, it loads the program for performing processing which was mentioned above from the record medium of processor side memory 87 grades, such as the circuit point memory 86 with which the center was equipped or RAM with which the personal computer 81 was equipped, and a hard disk.

[0034]

[Effect of the Invention] As mentioned above, the electronic communication system and record medium of this invention Create the text incorporating the attribute information of users, such as an event schedule of a name, a hobby, and an affiliation group, and information like WX which carries out aging, for example, it outputs as a character. Moreover, since the news which displayed for example, the reduction image automatically as identification information of news considered for a user's interest to be high based on information like the hobby included in a user's attribute information, and the user chose from the inside are offered A user is made to have a sense of closeness to an electronic communication system, and the outstanding effect of causing a user's interest and participating volition to communication is done so.

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TECHNICAL FIELD

[The technical field to which invention belongs] this invention relates to the record medium in which reading by the computer used by the electronic communication system which transmits and receives electronic messages, such as electronic news and an E-mail, in a network like the Internet, and the electronic communication system is possible.

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PRIOR ART

[Description of the Prior Art] Electronic news and an E-mail are transmitted and received using networks, such as the Internet and personal computer communications, and the electronic communication system for which many men and an opinion are exchanged has spread.

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EFFECT OF THE INVENTION

[Effect of the Invention] As mentioned above, the electronic communication system and record medium of this invention, Create the text incorporating the attribute information of users, such as an event schedule of a name, a hobby, and an affiliation group, and information like WX which carries out aging, for example, it outputs as a character. Moreover, since the news which displayed for example, the reduction image automatically as identification information of news considered for a user's interest to be high based on information like the hobby included in a user's attribute information, and the user chose from the inside are offered A user is made to have a sense of closeness to an electronic communication system, and the outstanding effect of causing a user's interest and participating volition to communication is done so.

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TECHNICAL PROBLEM

[Problem(s) to be Solved by the Invention] However, although such an electronic communication system is used abundantly at the business youth, the present condition is that the user with thin concordance is negative to the participation to communication to computers, such as a child and an old age person.

[0004] Although news are classified into a certain amount of genre and reference of a user is supported in the electronic communication system, a user has to choose a genre and he has to discover interested information. This troublesomeness is one of the causes which bar the participation to communication of a user with thin concordance to computers, such as a child and an old age person.

[0005] this invention is made in order to solve such a trouble. The purpose by creating the text incorporating the attribute information of users, such as an event schedule of a name, a hobby, and an affiliation group, and information like WX which carries out aging, for example, outputting as a character Based on information like the hobby included in a user's attribute information, as identification information of news considered for a user's interest to be high, moreover, for example, by offering the news which displayed the reduction image automatically and the user chose from the inside It is offer of the electronic communication system and record medium with which a user is made to have a sense of closeness to an electronic communication system, and a user's interest and participating volition to communication are caused.

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MEANS

[Means for Solving the Problem] The electronic communication system of the 1st invention The 1st storage means which has memorized the attribute information relevant to the object which performs electronic communication, The 2nd storage means which has memorized the text creation data for embedding the aforementioned attribute information to the composition pattern and this composition pattern of a text, Attribute information from the 1st storage means Moreover, the message creation section which acquires the composition pattern and text creation data of a text from the 2nd storage means, includes the aforementioned attribute information in a text pattern, and creates a message. It is characterized by having the output unit which outputs the message which the message creation section created.

[0007] It carries out the electronic communication system of the 2nd invention having been equipped with the 3rd storage means which has memorized information required for text composition in addition to the 1st invention, and having had a means the aforementioned message creation section acquires the text creation data corresponding to the composition pattern of the aforementioned text out of the information which the 3rd storage means has memorized, builds these text creation data into the composition pattern of the aforementioned text, and create a message as the feature.

[0008] The electronic communication system of the 3rd invention The 1st storage means which has memorized the attribute information on the object which performs electronic communication, The 2nd storage means which has memorized the information main part, and the 3rd storage means containing the identification information of this information main part which has memorized the attribute information on this information main part, The message creation section which acquires the identification information of an information main part which has relevance to the attribute information for the above from the 3rd storage means, The output unit which outputs the identification information which the message creation section acquired, and the selection to the outputted identification information are received, and it is characterized by having the control section which acquires the information main part corresponding to the selected identification information from the 2nd storage means.

[0009] In the record medium which the record medium of the 4th invention can read [computer] The attribute information relevant to the object which performs electronic communication, and the text creation data for embedding the aforementioned attribute information to the composition pattern and this composition pattern of a text, A program code means to acquire the composition pattern and text creation data of attribute information and a text to the aforementioned computer, to make it include the aforementioned attribute information in a text pattern, and to make it create a message. It is characterized by including the program code means to which the message created by the aforementioned computer is made to output.

[0010] The electronic communication system of the 5th invention The 1st storage means which has memorized beforehand two or more specific information which accompanies the individual or group which is the system which performs communication electronically using a computer system, and uses this system, The 2nd storage means which has memorized beforehand two or more kinds of composition patterns of the message which should be shown to the individual or

group using the aforementioned system, The message creation section which includes in the composition pattern of the message which acquired the specific information from the storage means of the above 1st from the 2nd storage means according to the information which shows the state at the time of electronic communication execution, and creates a predetermined message. It is characterized by having the output unit which presents the created message.

[0011] In the 1st, the 4th, and 5th invention, a text including the individual content which included the attribute information relevant to users, such as an event of a name, a birthday, a hobby, an affiliation group, and an affiliation group, in the composition pattern of a text is created and outputted.

[0012] In the 2nd invention, general information required to constitute texts other than the attribute information relevant to a user is memorized, and the text incorporating the general information corresponding to information included in the attribute information relevant to a user, such as an event of a birthday and an affiliation group, is created and outputted. Thereby, the 1st, the 2nd, the 4th, and 5th invention makes a sense of closeness to an electronic communication system bear against a user, and a user's interest and participating volition to communication are caused.

[0013] In the 3rd invention, it has relevance to the attribute information of a user like a hobby among the news contributed to the system, and the news of the identification information chosen from from as the user while outputting and outputting only identification information, such as a reduction image which discriminates news with a user's high interest, are acquired from a storage means like a news server. Thereby, a user can look through the identification information of the high news of an interest, without performing special operation, the news for which it wishes by easy operation of choosing from them further can be acquired, and the participating volition to communication is caused.

[0014]

[Embodiments of the Invention]

[Gestalt 1 of operation] Drawing 1 is the block diagram of the gestalt 1 of operation of the electronic communication system of this invention. air conditioner INTO equipment 100 Main control section 101 which controls operation of each part, and the data transfer between each part input units 102, such as a mouse and a keyboard, Display 103, such as a display as an output unit, and a loudspeaker display 103 The display-control section 104 which controls data output Server equipment 200 mentioned later Required information is acquired from various databases. Give a user unexpected nature and make it bear a sense of closeness against a communication system. The text creation data table 107 (refer to drawing 4) which has memorized the document preparation data for creating the text in which a user's interest and participating volition to communication are caused, Text creation data table 107 DB interpretation section 106 which creates the text which refers to and includes a user's individual content The network control section 105 which controls the communication procedure between networks It has and connects with server equipment 200 through the network.

[0015] Drawing 2 is above-mentioned DB interpretation section 106. It is a detailed block diagram. each time which creates a text for the item of the attribute information relevant to the user who becomes the keyword which determines the composition pattern of the text to create — turn — or the keyword selection section 1061 which chooses at random and a text creation data table 107 It refers to and it has the text composition section 1062 which includes a user's individual information in the composition pattern of a text suitable for the keyword chosen by the keyword selection section 1061, and constitutes a text.

[0016] Server equipment 200 Main control section 201 which controls operation of each part, and transfer of the data between each part The news server section 202 which memorizes and manages the information main part of news The mail server section 203 which memorizes and manages the information main part of mail The network control section 204 which controls the communication procedure between networks It has.

[0017] moreover, server equipment 200 User information DB(database) 205 which stores the attribute information of users, such as the user ID for hand registered by the user, a name, an affiliation group, a birthday, a hobby, and sex (age) group information DB206 which stores the

attribute information of a user like the event information on a user's affiliation group (kind of event time and event) For example, general information DB207 which stores information like WX of the place of residence of the user who gained from the text prior periodically which carries out aging according to the date It has. Drawing 3 is server equipment 200. The database 205 of the gestalt 1 of operation, 206, and 207 It is a conceptual diagram.

[0018] Drawing 4 is the text creation data table 107 of the gestalt 1 of operation. It is a conceptual diagram. The text composition pattern table is memorized according to the item of the attribute information used as the keyword of the text which creates the composition pattern of the text for creating the text incorporating a user's attribute information. The keyword attribute table has memorized the items (the date, WX, sex, etc.) of attribute information required in order to create the text suitable for the content of a keyword. The text composition rule table has memorized the language and the text according to the attribute information on items, such as the date and sex, the sake [when not including as / of attribute ***** / in a text pattern].

[0019] Next, immediately after a user logs in operation of the gestalt 1 of operation to a communication system from client equipment, based on drawing of the flow chart of drawing 5 and drawing 6, and the example of a screen display of drawing 7, it explains by making into an example the case where a message is displayed. A user is client equipment 100. Input unit 102 When shell user ID, a password, etc. are inputted and being logged in to a communication system (Step S1), it is client equipment 100. Network control section 105 Shell server equipment 200 Network control section 204 User ID is transmitted.

[0020] Server equipment 200 It is the user information DB205, using user ID which received as a key. It searches and a user's attribute information is acquired (Step S2). Next, it is the group information DB206, using as a key the group name to which a user belongs. It searches and group information, such as a date of the event of the group to which a user belongs, and a kind of event, is acquired (Step S3). Next, it is general information DB207, using information at the predetermined time like the date of an event as a key. It searches and general information, such as WX, is acquired (step S4). Server equipment 200 It is client equipment 100 about these acquired information. It transmits.

[0021] Client equipment 100 DB interpretation section 106 Text creation data table 107 It refers to, these information is analyzed and the text of the message which is display information is processed (Step S5).

[0022] DB interpretation section 106 The item of the attribute information relevant to the keyword which chose either of the items of attribute information at random (Step S51), and chose it from the keyword attribute table according to predetermined sequence as a keyword of the message to create is acquired, and the attribute information on the corresponding item is acquired (Step S52). For example, when "an event 1" is chosen as a keyword, the item of the "date" (attribute 1) and "WX" (attribute 2) is acquired from a keyword attribute table. It is the group information DB206, using these items as a key. The date of an event 1 and a kind, and general information DB207 The weather information of the date of an event is acquired.

[0023] Next, DB interpretation section 106 According to the selected keyword, a text composition pattern is acquired from a text composition pattern table (Step S53), attribute information is incorporated, and a text is created (Step S54). At this time, depending on the item of attribute information, with reference to a text composition rule table, other language corresponding to attribute information and a text are acquired, and it includes in a text composition pattern. For example, in the case of the "date", according to the difference of today's date and the date of an event, the word "day after tomorrow" is replaced with the date itself "today" and "tomorrow", and it includes in a text composition pattern.

[0024] DB interpretation section 106 It is the display-control section 104 about the created text data. Passing, the display-control section 104 is display 103. Message data as shown in the display to carry out at drawing 7 is displayed (Step S6). At the gestalt 1 of operation, it is DB interpretation section 106. Text creation data table 107 Client equipment 100 Although the established example was given, it is server equipment 200. You may compare.

[0025] [Gestalt 2 of operation] Drawing 8 is the block diagram of the gestalt 2 of operation of

the electronic communication system of this invention. In addition, the same sign is given to the gestalt 1 of operation of drawing 1, the same, or a considerable portion, and the explanation is omitted. server equipment 200 of this example The same user information DB205 as the gestalt 1 of operation News server section 202 It is client equipment 100 as identification information which discriminates the memorized news main part. Display 103 The reduction image data of the news to output (or the storing address), news information DB208 which has memorized the subject of news, the number of readers, and the attribute information on the news which consist of famous height according to News ID Mail server section 203 It is client equipment 100 as identification information which discriminates the memorized main part of mail. Display 103 The date of arrival of the mail to output, The sender and mail information DB209 which has memorized the reduction image data (or the storing address) according to Mail ID It has. Drawing 9 is the database 205 of the gestalt 2 of operation, 208, and 209. It is a conceptual diagram. [0026] moreover, client equipment 100 DB interpretation section 106 User information DB205 the reduction image data of the news and mail according to the attribute information of a user like the hobby memorized — news information DB208 And mail information DB209 from — acquiring — for example, message data — adding — the display-control section 104 passing — display 103 A message is displayed, when there is message data, a reduction image and. [0027] moreover, client equipment 100 Main control section 101 The display position and size of the displayed reduction image, News ID, and Mail ID are memorized. Display 103 It is server equipment 200 about the news ID corresponding to the reduction image chosen from from as the user by click operation etc. while displaying, or Mail ID. It transmits. It is server equipment 200 about the news or mail corresponding to the selected reduction image. News server section 202 Or the mail server section 203 Shell acquisition is carried out and it is display 103. It displays on display.

[0028] Next, immediately after a user logs in operation of the gestalt 2 of operation to a communication system from client equipment, based on drawing of the flow chart of drawing 10, and the example of a screen display of drawing 11, it explains by making into an example the case where a reduction image is displayed. A user is client equipment 100. Input unit 102 When shell user ID, a password, etc. are inputted and being logged in to a communication system (Step S11), it is client equipment 100. Network control section 105 Shell server equipment 200 Network control section 204 User ID is transmitted.

[0029] Server equipment 200 It is the user information DB205, using user ID which received as a key. The attribute information which searches, for example, shows the degree of interest to a user's information like a hobby is acquired (Step S12). next, news information DB208 from — the reduction image data of news with a user's high degree of interest, for example, the news about a hobby, — moreover, reduction image datas, such as mail with a user's high degree of interest, for example, the mail from the sender who has a friend relation, and new-arrival mail, are acquired from the mail information DB (Step S12 and S13) Server equipment 200 It is client equipment 100 about these acquired information. It transmits.

[0030] client equipment 100 DB interpretation section 106 display information, such as determining the display position of the transmitted reduction image, and adding message data, — processing it (Step S14) — main control section 101 The display position and size of the reduction image to display, News ID, or Mail ID is memorized (Step S15). display information — the display-control section 104 passing — the display-control section 104 this display information — display 103 it is — as shown in display at drawing 11, it displays (Step S16)

[0031] Furthermore, when a user chooses the reduction image displayed like drawing 11 by click, it is client equipment 100. Main control section 101 It judges which is the selected reduction image, and the corresponding news ID or Mail ID is transmitted to server equipment 200. server equipment 200 Main control section 201 News information DB208 Or mail information DB209 the news or mail corresponding to the reduction image referred to and chosen — the news server section 202 Or the mail server section 203 from — taking out — client equipment 100 It transmits.

[0032] In addition, although the gestalt of the above operation explained the client-server type electronic communication system, this invention is applicable also to a stand-alone type

electronic communication system. Moreover, DB interpretation section 106 Server equipment 200 You may prepare.

[0033] Drawing 12 is the ** type view of the hardware composition for realizing the system of this invention. This hardware is equipped with the personal computer 81 as a processor, the display 82 which displays an alphabetic data etc., and the keyboard 83 and mouse 84 as an input unit. Communication of a program is possible for a personal computer 81 with the portability type record media 85, such as a magnetic disk and CD-ROM, a personal computer 81, radio, or a cable, for example, it loads the program for performing processing which was mentioned above from the record medium of processor side memory 87 grades, such as the circuit point memory 86 with which the center was equipped or RAM with which the personal computer 81 was equipped, and a hard disk.

[Translation done.]

* NOTICES *

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3. In the drawings, any words are not translated.

DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]

[Drawing 1] It is the block diagram of the gestalt 1 of operation of this invention.

[Drawing 2] It is the block of DB interpretation section of the gestalt 1 of operation.

[Drawing 3] It is the conceptual diagram of the database of the gestalt 1 of operation.

[Drawing 4] It is the conceptual diagram of the text creation data table of the gestalt 1 of operation.

[Drawing 5] It is the flow chart (the 1) of operation of the gestalt 1 of operation.

[Drawing 6] It is the flow chart (the 2) of operation of the gestalt 1 of operation.

[Drawing 7] It is drawing of the example of a screen display of the gestalt 1 of operation.

[Drawing 8] It is the block diagram of the gestalt 2 of operation of this invention.

[Drawing 9] It is the conceptual diagram of the database of the gestalt 2 of operation.

[Drawing 10] It is the flow chart of operation of the gestalt 2 of operation.

[Drawing 11] It is drawing of the example of a screen display of the gestalt 2 of operation.

[Drawing 12] It is the ** type view of the hardware composition for realizing the system of this invention.

[Description of Notations]

100 Client Equipment

101 Main Control Section

102 Input Unit

103 Display

104 Display-Control Section

105 Network Control Section

106 108 DB Interpretation Section

1061 Keyword Selection Section

1062 Text Composition Section

107 Text Creation Data Table

200 Server Equipment

201 Main Control Section

202 News Server Section

203 Mail Server Section

204 Network Control Section

205 User Information DB

206 Group Information DB

207 General Information DB

208 News Information DB

209 Mail Information DB

81 Personal Computer

82 Display

83 Keyboard

84 Mouse

85 Portability Type Record Medium

86 Circuit Point Memory
87 Processor Side Memory

[Translation done.]

* NOTICES *

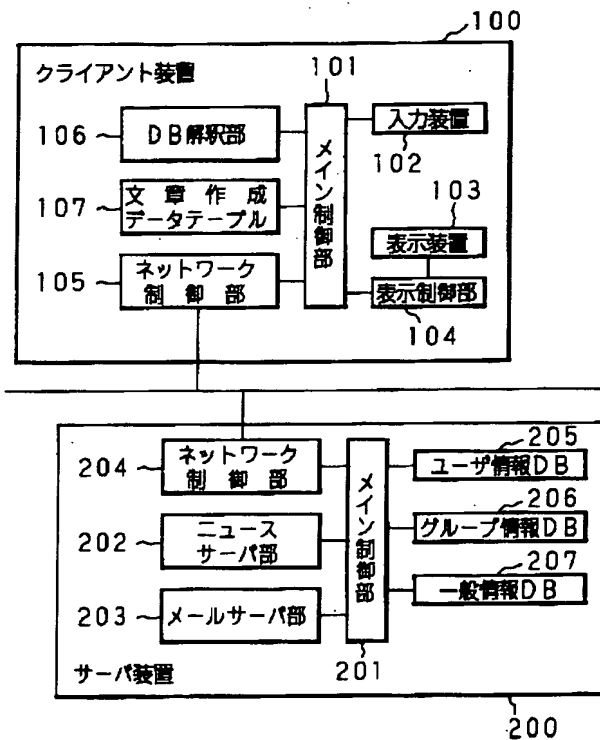
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DRAWINGS

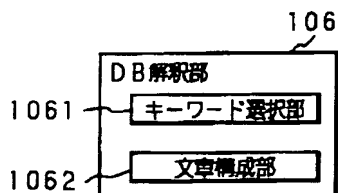
[Drawing 1]

本発明の実施の形態1のブロック図



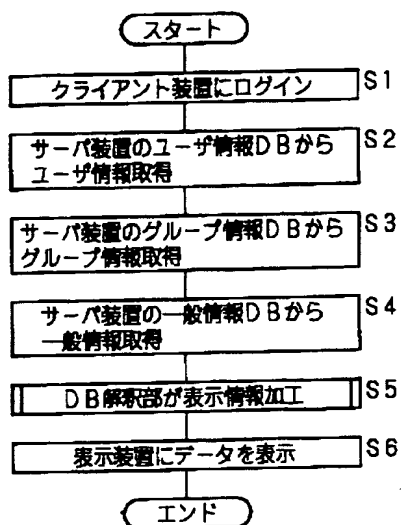
[Drawing 2]

実施の形態1のDB解釈部のブロック図



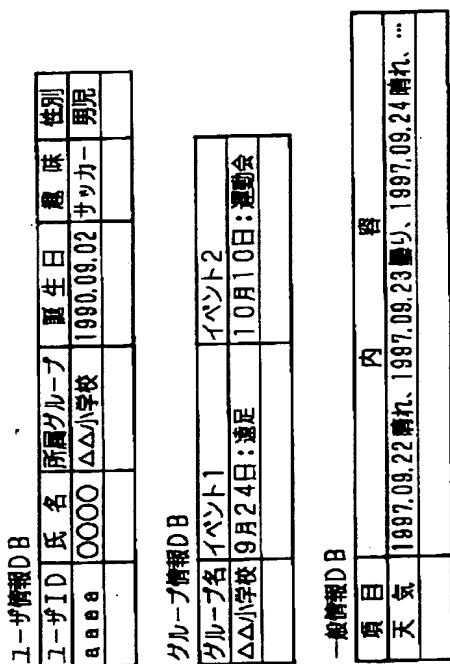
[Drawing 5]

実施の形態1の動作のフローチャート(その1)



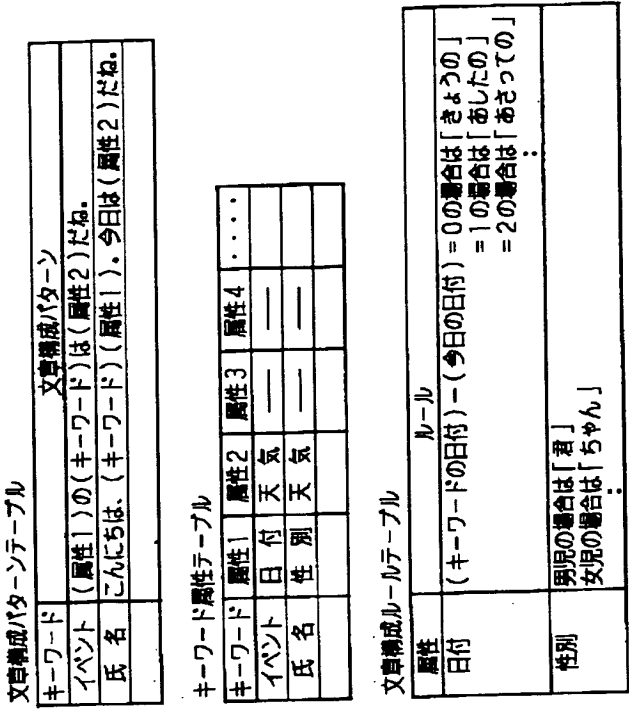
[Drawing 3]

実施の形態1のデータベースの概念図



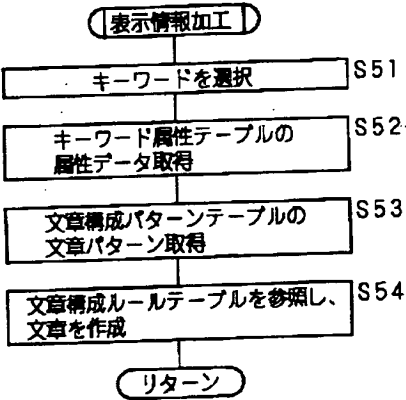
[Drawing 4]

実施の形態1の文章作成データテーブルの概念図



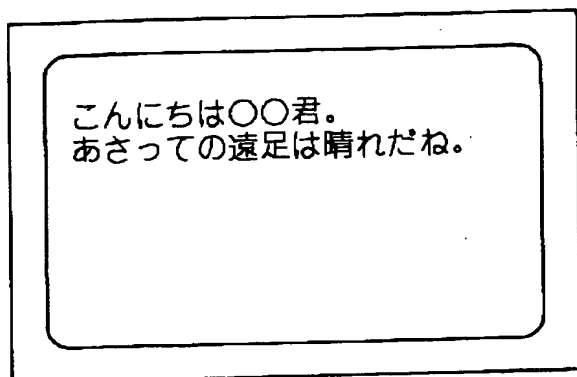
[Drawing 6]

実施の形態1の動作のフローチャート(その2)



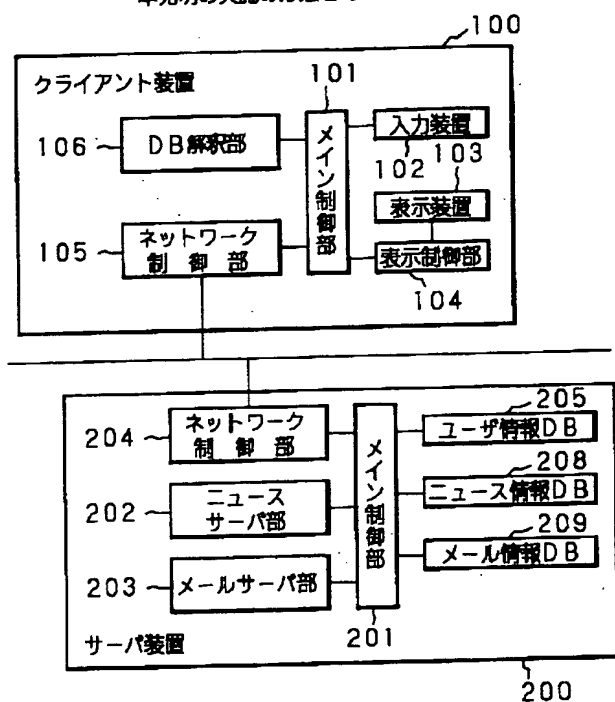
[Drawing 7]

実施の形態1の画面表示例の図



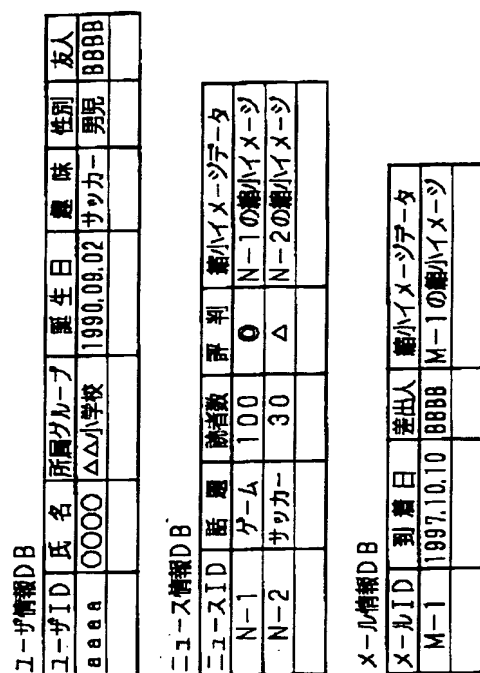
[Drawing 8]

本発明の実施の形態2のブロック図



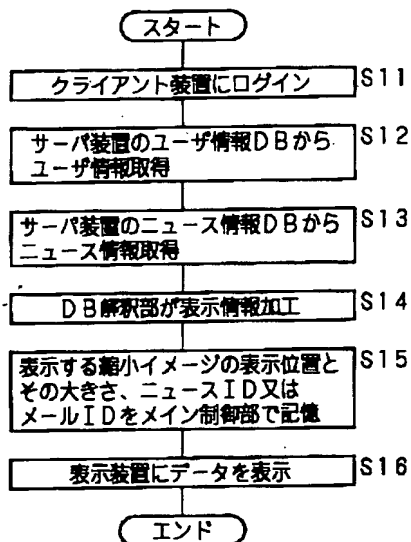
[Drawing 9]

実施の形態2のデータベースの概念図



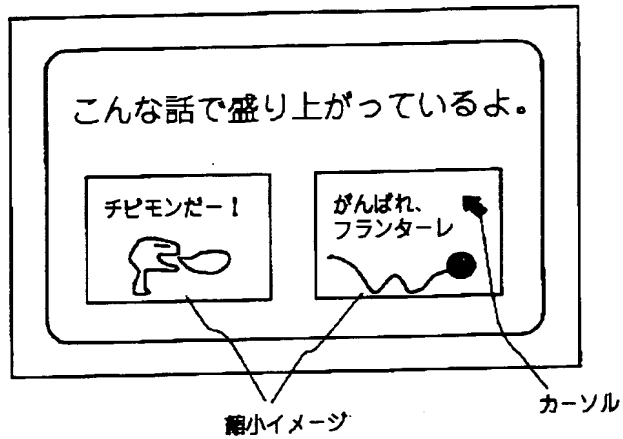
[Drawing 10]

実施の形態2の動作のフローチャート



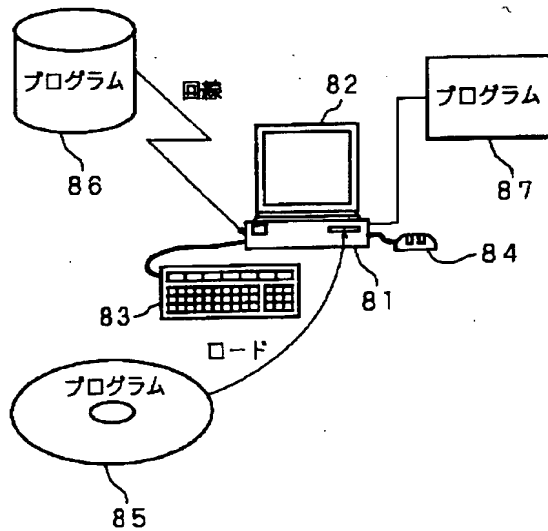
[Drawing 11]

実施の形態2の画面表示例の図



[Drawing 12]

本発明のシステムを実現するためのハードウェア構成の模式図



[Translation done.]

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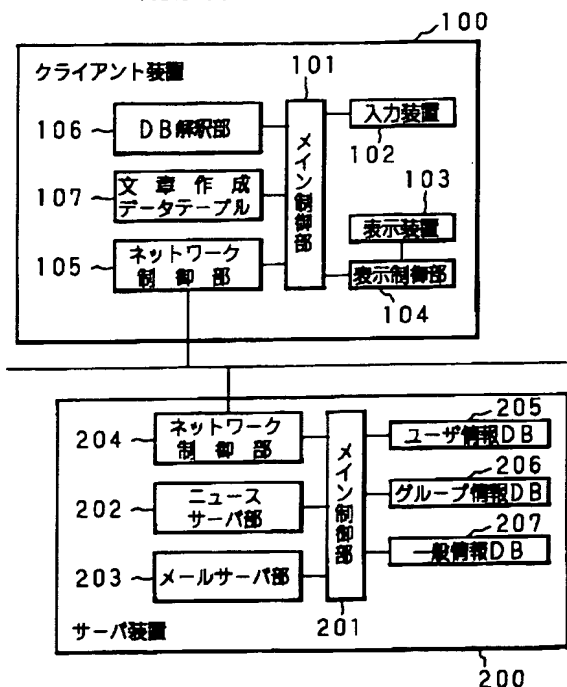
(54) 【発明の名称】 電子コミュニケーションシステム及び記録媒体

(57) 【要約】

【課題】 インターネットのようなネットワークにおいて電子ニュース、電子メール等の電子メッセージを送受信する電子コミュニケーションシステムに関し、電子コミュニケーションシステムへの親近感をユーザに抱かせ、コミュニケーションへのユーザの関心及び参加意欲を惹起する電子コミュニケーションシステムの提供。

【解決手段】 ユーザに関連する属性情報を記憶しているユーザ情報DB205及びグループ情報DB206と、文章の構成パターン及び該構成パターンに前記属性情報を埋め込むための文章作成データを記憶している文章作成データテーブル107と、ユーザ情報DB205及びグループ情報DB206から属性情報を、また文章作成データテーブル107から文章の構成パターン及び文章作成データを取得して前記属性情報を文章パターンに組み込んで文章を作成するDB解釈部106と、DB解釈部106が作成した文章を出力する表示装置103とを設ける。

本発明の実施の形態1のブロック図



【特許請求の範囲】

【請求項1】 電子コミュニケーションを実行する対象に関連する属性情報を記憶している第1の記憶手段と、文章の構成パターン及び該構成パターンに前記属性情報を埋め込むための文章作成データを記憶している第2の記憶手段と、

第1の記憶手段から属性情報を、また第2の記憶手段から文章の構成パターン及び文章作成データを取得して前記属性情報を文章パターンに組み込んでメッセージを作成するメッセージ作成部と、

メッセージ作成部が作成したメッセージを出力する出力装置とを備えたことを特徴とする電子コミュニケーションシステム。

【請求項2】 文章構成に必要な情報を記憶している第3の記憶手段を備え、前記メッセージ作成部は、第3の記憶手段が記憶している情報の中から前記文章の構成パターンに対応する文章作成データを取得し、該文章作成データを前記文章の構成パターンに組み込んでメッセージを作成する手段を備えた請求項1記載の電子コミュニケーションシステム。

【請求項3】 電子コミュニケーションを実行する対象の属性情報を記憶している第1の記憶手段と、

情報本体を記憶している第2の記憶手段と、該情報本体の識別情報を含む、該情報本体の属性情報を記憶している第3の記憶手段と、

前記対象の属性情報に関連性を有する情報本体の識別情報を第3の記憶手段から取得するメッセージ作成部と、メッセージ作成部が取得した識別情報を出力する出力装置と、

出力された識別情報に対する選択を受け付け、選択された識別情報に対応する情報本体を第2の記憶手段から取得する制御部とを備えたことを特徴とする電子コミュニケーションシステム。

【請求項4】 コンピュータでの読み取りが可能な記録媒体において、

電子コミュニケーションを実行する対象に関連する属性情報と、

文章の構成パターン及び該構成パターンに前記属性情報を埋め込むための文章作成データと、

前記コンピュータに、属性情報、文章の構成パターン及び文章作成データを取得して前記属性情報を文章パターンに組み込ませてメッセージを作成させるプログラムコード手段と、

前記コンピュータに、作成されたメッセージを出力させるプログラムコード手段とを含むことを特徴とする記録媒体。

【請求項5】 コンピュータシステムを利用して電子的にコミュニケーションを実行するシステムであって、該システムを利用する個人またはグループに付随する複数の特定情報をあらかじめ記憶している第1の記憶手段

と、

前記システムを利用する個人またはグループに対して提示すべきメッセージの構成パターンを複数種類あらかじめ記憶している第2の記憶手段と、

前記第1の記憶手段からの特定情報を、電子コミュニケーション実行時の状態を示す情報に応じて第2の記憶手段から取得したメッセージの構成パターンに組み込んで所定のメッセージを作成するメッセージ作成部と、作成されたメッセージを提示する出力装置とを備えたことを特徴とする電子コミュニケーションシステム。

【発明の詳細な説明】**【0001】**

【発明の属する技術分野】 本発明は、例えばインターネットのようなネットワークにおいて電子ニュース、電子メール等の電子メッセージを送受信する電子コミュニケーションシステム、及び電子コミュニケーションシステムで使用されるコンピュータでの読み取りが可能な記録媒体に関する。

【0002】

【従来の技術】 インターネット、パソコン通信等のネットワークを利用して電子ニュース、電子メールを送受信して、多数の人たちと意見を交換する電子コミュニケーションシステムが普及している。

【0003】

【発明が解決しようとする課題】 しかし、このような電子コミュニケーションシステムは、ビジネスユースに多用されているが、子供、高齢者等のコンピュータになじみが薄いユーザはコミュニケーションへの参加に消極的であるのが現状である。

【0004】 電子コミュニケーションシステムには、ニュースをある程度のジャンルに分類してユーザの検索を支援しているが、ユーザはジャンルを選択して、自分が関心のある情報を探し出さなくてはならない。この煩わしさが、子供、高齢者等のコンピュータになじみが薄いユーザの、コミュニケーションへの参加を妨げる原因の一つになっている。

【0005】 本発明はこのような問題点を解決するためになされたものであって、名前、趣味、所属グループの行事予定等のユーザの属性情報、天気のような経時変化する情報を組み込んだ文章を作成して例えば文字として出力することにより、またユーザの属性情報に含まれる趣味のような情報に基づいて、ユーザの関心が高いと思われるニュースの識別情報として例えば縮小イメージを自動的に表示してその中からユーザが選択したニュースを提供することにより、電子コミュニケーションシステムへの親近感をユーザに抱かせ、コミュニケーションへのユーザの関心及び参加意欲を惹起する電子コミュニケーションシステム及び記録媒体の提供を目的とする。

【0006】

【課題を解決するための手段】 第1発明の電子コミュニ

ケーションシステムは、電子コミュニケーションを実行する対象に関連する属性情報を記憶している第1の記憶手段と、文章の構成パターン及び該構成パターンに前記属性情報を埋め込むための文章作成データを記憶している第2の記憶手段と、第1の記憶手段から属性情報を、また第2の記憶手段から文章の構成パターン及び文章作成データを取得して前記属性情報を文章パターンに組み込んでメッセージを作成するメッセージ作成部と、メッセージ作成部が作成したメッセージを出力する出力装置とを備えたことを特徴とする。

【0007】第2発明の電子コミュニケーションシステムは、第1発明に加えて、文章構成に必要な情報を記憶している第3の記憶手段を備え、前記メッセージ作成部は、第3の記憶手段が記憶している情報の中から前記文章の構成パターンに対応する文章作成データを取得し、該文章作成データを前記文章の構成パターンに組み込んでメッセージを作成する手段を備えたことを特徴とする。

【0008】第3発明の電子コミュニケーションシステムは、電子コミュニケーションを実行する対象の属性情報を記憶している第1の記憶手段と、情報本体を記憶している第2の記憶手段と、該情報本体の識別情報を含む、該情報本体の属性情報を記憶している第3の記憶手段と、前記対象の属性情報に関連性を有する情報本体の識別情報を第3の記憶手段から取得するメッセージ作成部と、メッセージ作成部が取得した識別情報を出力する出力装置と、出力された識別情報に対する選択を受け付け、選択された識別情報に対応する情報本体を第2の記憶手段から取得する制御部とを備えたことを特徴とする。

【0009】第4発明の記録媒体は、コンピュータでの読み取りが可能な記録媒体において、電子コミュニケーションを実行する対象に関連する属性情報と、文章の構成パターン及び該構成パターンに前記属性情報を埋め込むための文章作成データと、前記コンピュータに、属性情報、文章の構成パターン及び文章作成データを取得して前記属性情報を文章パターンに組み込ませてメッセージを作成させるプログラムコード手段と、前記コンピュータに、作成されたメッセージを出力させるプログラムコード手段とを含むことを特徴とする。

【0010】第5発明の電子コミュニケーションシステムは、コンピュータシステムを利用して電子的にコミュニケーションを実行するシステムであって、該システムを利用する個人またはグループに付随する複数の特定情報をあらかじめ記憶している第1の記憶手段と、前記システムを利用する個人またはグループに対して提示すべきメッセージの構成パターンを複数種類あらかじめ記憶している第2の記憶手段と、前記第1の記憶手段からの特定情報を、電子コミュニケーション実行時の状態を示す情報に応じて第2の記憶手段から取得したメッセージ

の構成パターンに組み込んで所定のメッセージを作成するメッセージ作成部と、作成されたメッセージを提示する出力装置とを備えたことを特徴とする。

【0011】第1、第4及び第5発明では、名前、誕生日、趣味、所属グループ、所属グループの行事等のユーザに関連する属性情報を、文章の構成パターンに組み込んだ個人的な内容を含む文章を作成して出力する。

【0012】第2発明では、ユーザに関連する属性情報以外の、文章を構成するのに必要な一般情報を記憶しておき、ユーザに関連する属性情報に含まれる、誕生日、所属グループの行事等の情報に対応する一般情報を組み込んだ文章を作成して出力する。これにより、第1、第2、第4及び第5発明は、ユーザに電子コミュニケーションシステムへの親近感を抱かせ、コミュニケーションへのユーザの関心及び参加意欲を惹起する。

【0013】第3発明では、システムに投稿されているニュースのうち、例えば趣味のようなユーザの属性情報に関連性を有し、ユーザの関心が高いニュースを識別する縮小イメージ等の識別情報のみを出力し、出力した中からユーザに選択された識別情報のニュースをニュースサーバのような記憶手段から取得する。これにより、ユーザは特別な操作を行わずに、関心の高いニュースの識別情報を一覧することができ、さらにそれらの中から選択するという簡単な操作で希望するニュースを取得でき、コミュニケーションへの参加意欲が惹起される。

【0014】

【発明の実施の形態】

〔実施の形態1〕図1は本発明の電子コミュニケーションシステムの実施の形態1のブロック図である。クライアント装置100は、各部の動作及び各部間のデータ授受を制御するメイン制御部101と、マウス、キーボード等の入力装置102と、出力装置としてのディスプレイ、スピーカ等の表示装置103と、表示装置103へのデータ出力を制御する表示制御部104と、後述するサーバ装置200の各種データベースから必要な情報を取得して、ユーザに意外性を与え、コミュニケーションシステムに親近感を抱かせ、コミュニケーションへのユーザの関心及び参加意欲を惹起する文章を作成するための文書作成データを記憶している文章作成データテーブル107（図4参照）と、文章作成データテーブル107を参照してユーザの個人的な内容を含む文章を作成するDB解釈部106と、ネットワークとの間の通信手順を制御するネットワーク制御部105とを備え、ネットワークを介してサーバ装置200に接続されている。

【0015】図2は上述のDB解釈部106の詳細なブロック図である。作成する文章の構成パターンを決定するキーワードとなるユーザに関連する属性情報の項目を、例えば、文章を作成する都度、順番に、又はランダムに選択するキーワード選択部1061と、文章作成データテーブル107を参照して、キーワード選択部1061により選択さ

れたキーワードに適した文章の構成パターンに、ユーザの個人的な情報を組み込んで文章を構成する文章構成部1062とを有する。

【0016】サーバ装置200は、各部の動作及び各部間のデータの授受を制御するメイン制御部201と、ニュースの情報本体を記憶して管理するニュースサーバ部202と、メールの情報本体を記憶して管理するメールサーバ部203と、ネットワークとの間の通信手順を制御するネットワーク制御部204とを備える。

【0017】またサーバ装置200は、予めユーザによって登録されたユーザID、氏名、所属グループ、誕生日、趣味、性別（年齢）といったユーザの属性情報を格納しているユーザ情報DB（データベース）205と、ユーザの所属グループのイベント情報（イベント日時・イベントの種類）のようなユーザの属性情報を格納しているグループ情報DB206と、例えば外部から定期的に獲得したユーザの居住地の天気のような経時変化する情報を日付別に格納している一般情報DB207とを備える。図3はサーバ装置200の実施の形態1のデータベース205、206、207の概念図である。

【0018】図4は実施の形態1の文章作成データテーブル107の概念図である。文章構成パターンテーブルは、ユーザの属性情報を組み込んだ文章を作成するための文章の構成パターンを、作成する文章のキーワードとなる、属性情報の項目別に記憶している。キーワード属性テーブルは、キーワードの内容に適した文章を作成するために必要な属性情報の項目（日付、天気、性別等）を記憶している。文章構成ルールテーブルは、文章パターンに属性情報そのままを組み込まない場合のために、日付、性別等の項目の属性情報に応じたことば、文章を記憶している。

【0019】次に、実施の形態1の動作を、ユーザがクライアント装置からコミュニケーションシステムにログインした直後にメッセージを表示する場合を例として、図5、図6のフローチャート及び図7の画面表示例の図に基づいて説明する。ユーザがクライアント装置100の入力装置102からユーザID、パスワード等を入力してコミュニケーションシステムにログインすると（ステップS1）、クライアント装置100のネットワーク制御部105からサーバ装置200のネットワーク制御部204へユーザIDが送信される。

【0020】サーバ装置200は、受信したユーザIDをキーとしてユーザ情報DB205を検索し、ユーザの属性情報を取得する（ステップS2）。次に、ユーザが所属するグループ名をキーとしてグループ情報DB206を検索し、ユーザが所属するグループのイベントの日付、イベントの種類等のグループ情報を取得する（ステップS3）。次に、イベントの日付のような所定の時点の情報をキーとして一般情報DB207を検索し、天気等の一般情報を取得する（ステップS4）。サーバ装置200は取得したこれら

の情報をクライアント装置100へ送信する。

【0021】クライアント装置100のDB解釈部106は、文章作成データテーブル107を参照して、これらの情報を解析し、表示情報であるメッセージの文章を加工する（ステップS5）。

【0022】DB解釈部106は、作成するメッセージのキーワードとして属性情報の項目のいずれかを、所定の順序に従って、又はランダムに選択し（ステップS51）、キーワード属性テーブルから、選択したキーワードに関連する属性情報の項目を取得し、該当する項目の属性情報を取得する（ステップS52）。例えば、キーワードとして「イベント1」を選択した場合、キーワード属性テーブルから「日付」（属性1）、「天気」（属性2）という項目を取得する。これらの項目をキーとして、グループ情報DB206のイベント1の日付及び種類と、一般情報DB207のイベントの日付の天気情報を取得する。

【0023】次に、DB解釈部106は文章構成パターンテーブルから、選択したキーワードに応じて文章構成パターンを取得し（ステップS53）、属性情報を組み込んで文章を作成する（ステップS54）。このとき、属性情報の項目によっては、文章構成ルールテーブルを参照して属性情報に対応する他のことば、文章を取得し、文章構成パターンに組み込む。例えば、「日付」の場合、今日の日付とイベントの日付との差に応じて、「きょう」「あした」「あさって」ということばを、日付そのものに代えて文章構成パターンに組み込む。

【0024】DB解釈部106は作成した文章データを表示制御部104に渡し、表示制御部104は表示装置103としての表示装置に図7に示すようなメッセージデータを表示する（ステップS6）。実施の形態1では、DB解釈部106と文章作成データテーブル107をクライアント装置100に設けた例をあげたが、サーバ装置200に設けてもよい。

【0025】〔実施の形態2〕図8は本発明の電子コミュニケーションシステムの実施の形態2のブロック図である。なお、図1の実施の形態1と同一、又は相当部分には同一符号を付してその説明を省略する。本例のサーバ装置200は、実施の形態1と同様のユーザ情報DB205と、ニュースサーバ部202が記憶しているニュース本体を識別する識別情報としてクライアント装置100の表示装置103に出力するニュースの縮小イメージデータ（又はその格納アドレス）、ニュースの話題、読者数、評判の高低からなるニュースの属性情報をニュースID別に記憶しているニュース情報DB208と、メールサーバ部203が記憶しているメール本体を識別する識別情報としてクライアント装置100の表示装置103に出力するメールの到着日、差出人、縮小イメージデータ（又はその格納アドレス）をメールID別に記憶しているメール情報DB209とを備えている。図9は実施の形態2のデータベース205、208、209の概念図である。

【0026】またクライアント装置100のDB解釈部106は、ユーザ情報DB205に記憶されている趣味のようなユーザの属性情報に応じたニュース及びメールの縮小イメージデータをニュース情報DB208及びメール情報DB209から取得し、例えばメッセージデータを付加して表示制御部104に渡して表示装置103に縮小イメージと、メッセージデータがある場合はメッセージを表示させる。

【0027】またクライアント装置100のメイン制御部101は、表示した縮小イメージの表示位置とその大きさ、ニュースID、メールIDを記憶しておき、表示装置103に表示した中からクリック操作等によってユーザに選択された縮小イメージに対応するニュースID又はメールIDをサーバ装置200に送信して、選択された縮小イメージに対応するニュース又はメールをサーバ装置200のニュースサーバ部202又はメールサーバ部203から取得し、表示装置103の表示装置に表示する。

【0028】次に、実施の形態2の動作を、ユーザがクライアント装置からコミュニケーションシステムにログインした直後に縮小イメージを表示する場合を例として、図10のフローチャート及び図11の画面表示例の図に基づいて説明する。ユーザがクライアント装置100の入力装置102からユーザID、パスワード等を入力してコミュニケーションシステムにログインすると（ステップS11）、クライアント装置100のネットワーク制御部105からサーバ装置200のネットワーク制御部204へユーザIDが送信される。

【0029】サーバ装置200は、受信したユーザIDをキーとしてユーザ情報DB205を検索し、例えば趣味のような、ユーザの情報への関心度を示す属性情報を取得する（ステップS12）。次に、ニュース情報DB208からユーザの関心度が高いニュース、例えば趣味に関するニュースの縮小イメージデータを、またメール情報DBからユーザの関心度が高いメール、例えば友人関係にある差出人からのメール、新着メール等の縮小イメージデータを取得する（ステップS12・S13）。サーバ装置200は取得したこれらの情報をクライアント装置100へ送信する。

【0030】クライアント装置100のDB解釈部106は、送信されてきた縮小イメージの表示位置を決定し、またメッセージデータを付加する等、表示情報を加工し（ステップS14）、メイン制御部101で、表示する縮小イメージの表示位置とその大きさ、ニュースID又はメールIDを記憶しておき（ステップS15）、表示情報を表示制御部104に渡し、表示制御部104はこの表示情報を、表示装置103である表示装置に図11に示すように表示する（ステップS16）。

【0031】さらに、図11のように表示した縮小イメージをユーザが例えばクリックにより選択すると、クライアント装置100のメイン制御部101は選択された縮小イメージがどれであるかを判断し、該当するニュースID又はメールIDをサーバ装置200へ送信する。サーバ装置200

のメイン制御部201はニュース情報DB208又はメール情報DB209を参照して、選択された縮小イメージに対応するニュース又はメールをニュースサーバ部202又はメールサーバ部203から取り出してクライアント装置100へ送信する。

【0032】なお、以上の実施の形態ではクライアント・サーバ型の電子コミュニケーションシステムについて説明したが、本発明はスタンドアローン型の電子コミュニケーションシステムにも適用が可能である。また、DB解釈部106はサーバ装置200に設けてもよい。

【0033】図12は、本発明のシステムを実現するためのハードウェア構成の模式図である。本ハードウェアは、処理装置としてのパーソナルコンピュータ81と、文字データ等を表示するディスプレイ82と、入力装置としてのキーボード83及びマウス84とを備える。パーソナルコンピュータ81は、上述したような処理を行うためのプログラムを、磁気ディスク、CD-ROM等の可搬型記録媒体85、パーソナルコンピュータ81と無線又は有線にてプログラムの通信が可能な、例えばセンタに備えられた回線先メモリ86、あるいは、パーソナルコンピュータ81に備えつけられたRAM、ハードディスク等の処理装置側メモリ87等の記録媒体からロードする。

【0034】

【発明の効果】以上のように、本発明の電子コミュニケーションシステム及び記録媒体は、名前、趣味、所属グループの行事予定等のユーザの属性情報、天気のような経時変化する情報を組み込んだ文章を作成して例えば文字として出力し、またユーザの属性情報に含まれる趣味のような情報に基づいて、ユーザの関心が高いと思われるニュースの識別情報として例えば縮小イメージを自動的に表示してその中からユーザが選択したニュースを提供するので、電子コミュニケーションシステムへの親近感をユーザに抱かせ、コミュニケーションへのユーザの関心及び参加意欲を惹起するという優れた効果を奏する。

【図面の簡単な説明】

【図1】本発明の実施の形態1のブロック図である。

【図2】実施の形態1のDB解釈部のブロックである。

【図3】実施の形態1のデータベースの概念図である。

【図4】実施の形態1の文章作成データテーブルの概念図である。

【図5】実施の形態1の動作のフローチャート（その1）である。

【図6】実施の形態1の動作のフローチャート（その2）である。

【図7】実施の形態1の画面表示例の図である。

【図8】本発明の実施の形態2のブロック図である。

【図9】実施の形態2のデータベースの概念図である。

【図10】実施の形態2の動作のフローチャートである。

【図11】実施の形態2の画面表示例の図である。

【図12】本発明のシステムを実現するためのハードウェア構成の模式図である。

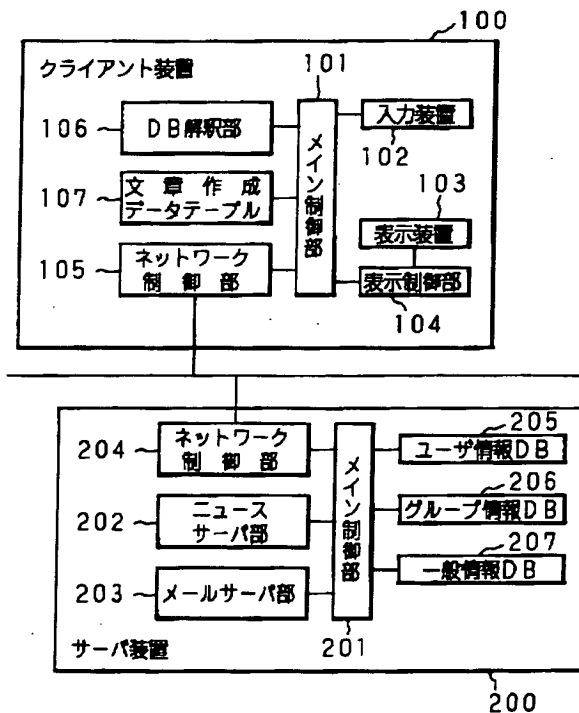
【符号の説明】

- 100 クライアント装置
- 101 メイン制御部
- 102 入力装置
- 103 表示装置
- 104 表示制御部
- 105 ネットワーク制御部
- 106、108 DB解釈部
- 1061 キーワード選択部
- 1062 文章構成部
- 107 文章作成データテーブル
- 200 サーバ装置
- 201 メイン制御部

- 202 ニュースサーバ部
- 203 メールサーバ部
- 204 ネットワーク制御部
- 205 ユーザ情報DB
- 206 グループ情報DB
- 207 一般情報DB
- 208 ニュース情報DB
- 209 メール情報DB
- 81 パーソナルコンピュータ
- 82 ディスプレイ
- 83 キーボード
- 84 マウス
- 85 可搬型記録媒体
- 86 回線先メモリ
- 87 処理装置側メモリ

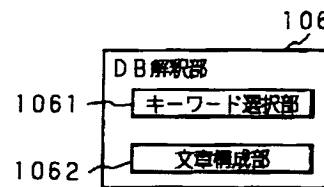
【図1】

本発明の実施の形態1のブロック図



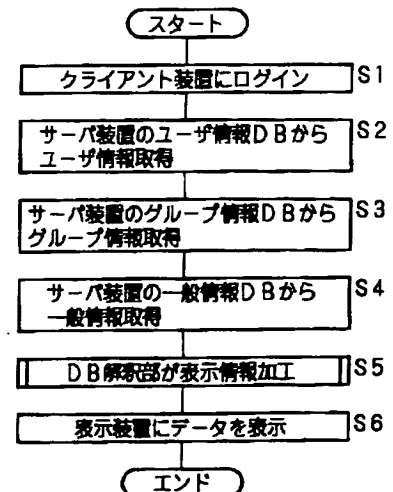
【図2】

実施の形態1のDB解釈部のブロック図



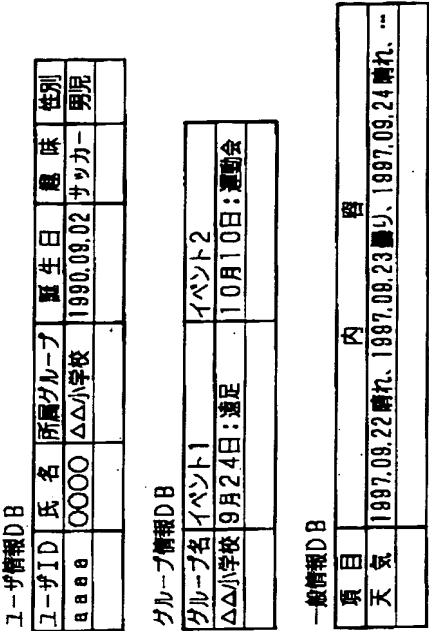
【図5】

実施の形態1の動作のフローチャート(その1)



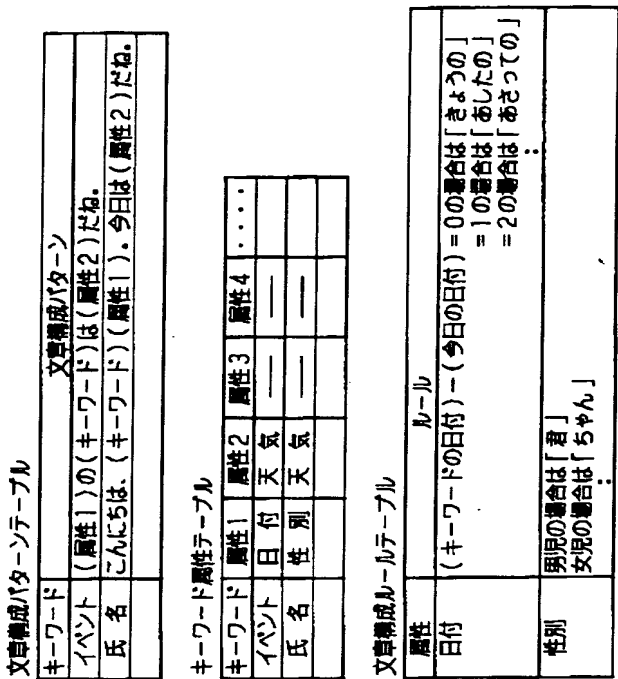
【図3】

実施の形態1のデータベースの概念図



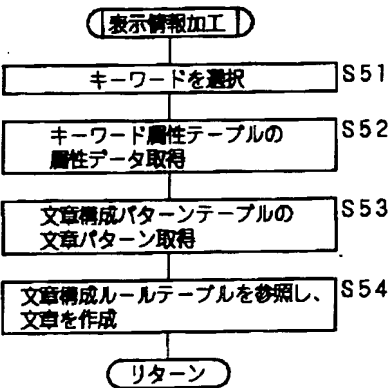
【図4】

実施の形態1の文章作成データテーブルの概念図



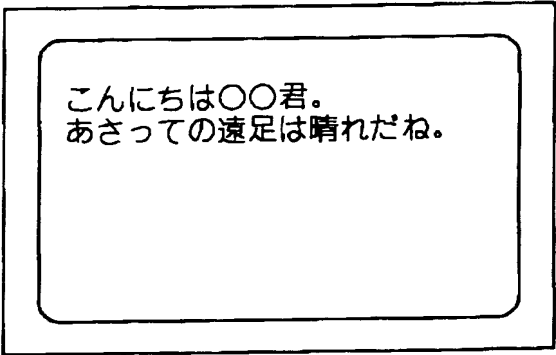
【図6】

実施の形態1の動作のフローチャート(その2)



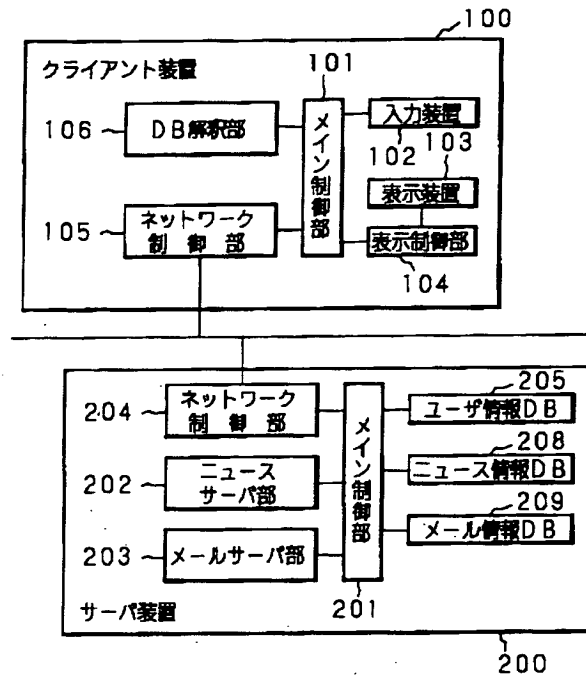
【図7】

実施の形態1の画面表示例の図



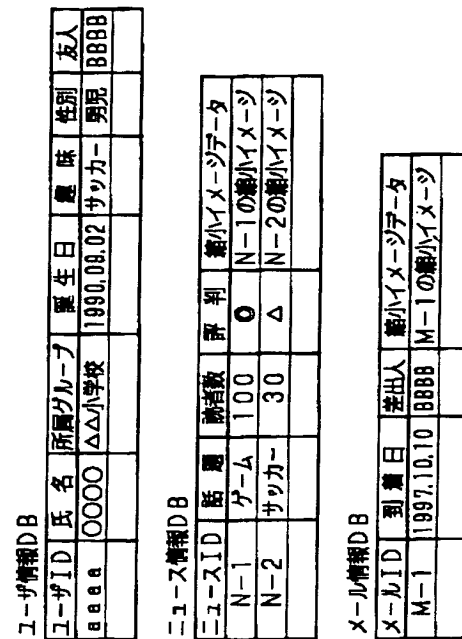
【図8】

本発明の実施の形態2のブロック図



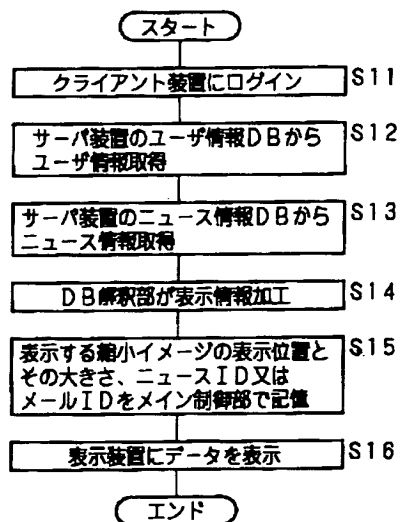
【図9】

実施の形態2のデータベースの概念図



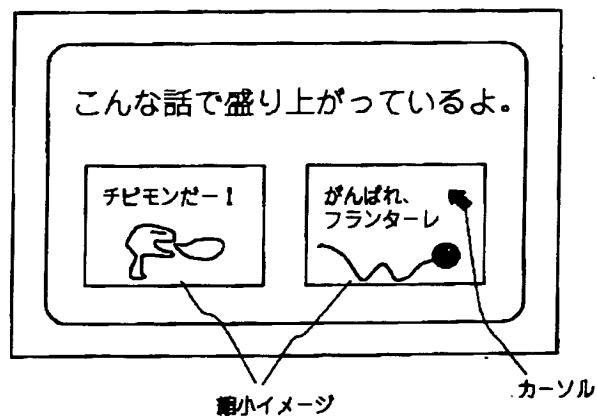
【図10】

実施の形態2の動作のフローチャート



【図11】

実施の形態2の画面表示例の図



【図12】

本発明のシステムを実現するためのハードウェア構成の模式図

